

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/573,131	04/18/2006	Darrel W. Stafford	5470-401	4529	
	7590 01/30/2007 L SIBLEY & SAJOVEC	EXAMINER			
PO BOX 37428			SITTON, JEHANNE SOUAYA		
RALEIGH, NC	27627		ART UNIT	PAPER NUMBER	
			1634		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
31 D	AYS	01/30/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.		Applicant(s)				
		10/573,131	10/573,131 STAFFORD ET AL.		۸L.			
		Examiner		Art Unit				
		Jehanne S.	Sitton	1634				
Period fo	The MAILING DATE of this communication apports.	pears on the	cover sheet with the c	orrespondence ad	ddress			
WHIC - Externafter - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THI 136(a). In no ever will apply and will e, cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from lation to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,			
Status								
1) 又	Responsive to communication(s) filed on 18 A	April 2006.		•				
2a)□	<u> </u>	s action is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims	•						
4)⊠	4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	Claim(s) is/are rejected.							
	Claim(s) is/are rejected. Claim(s) is/are objected to.							
· · · · ·	Claim(s) <u>1-11</u> are subject to restriction and/or	election real	irement.	•				
	on Papers	•						
	•							
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
		xammer. Not	e the attached Office	Action or form P	10-152.			
Priority (ınder 35 U.S.C. § 119	•						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Burea	•	` ''	•				
* See the attached detailed Office action for a list of the certified copies not received.								
	•							
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		5)	atent Application				
			, <u> </u>					

Application/Control Number: 10/573,131

Art Unit: 1634

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-5, drawn to a method of detecting single nucleotide polymorphisms, including a G to C alteration at position 2581 of SEQ ID O: 11, associated with an increased sensitivity to warfarin.

Group 2, claim(s) 7, drawn to a method of detecting a subject having decreased sensitivity to warfarin by detecting a T to C polymorphism at position 3294 of SEQ ID NO: 11.

Group 3, claim(s) 8, drawn to a method of detecting a subject having decreased sensitivity to warfarin by detecting a G to A polymorphism at position 4769 of SEQ ID NO: 11.

2. Claims 6 and 9-11 link(s) inventions in groups 2 and 3. The restriction requirement between the linked inventions is **subject to** the nonallowance of the linking claim(s), claims. Upon the indication of allowability of the linking claim(s), the restriction requirement as to the linked inventions **shall** be withdrawn and any claim(s) depending from or otherwise requiring all the limitations of the allowable linking claim(s) will be rejoined and fully examined for patentability in accordance with 37 CFR 1.104 **Claims that require all the limitations of an allowable linking claim** will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, the allowable linking claim, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

- 3. The inventions listed as Groups 1-3 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature is considered mutations in VKOR associated with warfarin sensitivity. This is not a special technical feature over the prior art as the prior art teaches mutations in VKOR associated with warfarin resistance (see Rost et al; Nature, vol. 427, 2/2004, pages 537-541). Additionally, the listed SNPs in the claims do not appear to a common structural feature responsible for warfarin sensitivity as the structural feature responsible for the sensitivity appears to be the different SNPs which are structurally distinct from each other. Accordingly, the claims lack the same or corresponding special technical feature and lack unity of invention.
- 4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In

Application/Control Number: 10/573,131 Page 4

Art Unit: 1634

either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Jehanne Sitton whose telephone number is (571) 272-0752. The examiner can normally be reached Monday-Thursday from 8:00 AM to 5:00 PM and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached on (571) 272-0735. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Jehanne Sitton Primary Examiner Art Unit 1634

1/22/07